

APPENDIX H

PROJECT COST ESTIMATES

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CONCEPT A

COCHISE COLLEGE AIRPORT MASTER PLAN UPDATE

DEVELOPMENT CONCEPT A

PROJECT COST ESTIMATE

YEAR REQUIRED

ITEM #	PROJECT DESCRIPTION	2005	2010	2020
1	Widen Parallel Taxiway to 25'		\$95,600	
2	Install Runway End Identifier Lighting	\$40,250		
3	Install Pilot Control System		\$51,750	
4	Upgrade Runway Lights to Medium Intensity		\$310,500	
5	Upgrade Taxiway Lights to Medium Intensity		\$230,000	
6	Install additional Shade Structures	\$189,750	\$189,750	
7	Increase Aircraft Tiedowns and Apron Area.			\$123,855
8	Restripe Parking Apron to Provide Required Separations (costs included in #7)			
9	Install AWOS-3		\$92,000	
10	Install Aircraft Maintenance Hanger		\$296,700	
11	Acquire 60 Acres East Side	\$261,618		
12	Acquire 40 Acres West Side	\$174,412		
13	Upgrade Master Plan		\$76,000	\$190,000
TOTALS PER PLANNING PERIOD		\$666,030	\$1,342,300	\$313,855

TOTAL CAPITAL COSTS \$2,322,185

CONCEPT B

COCHISE COLLEGE AIRPORT MASTER PLAN UPDATE

DEVELOPMENT CONCEPT B

ITEM #	PROJECT DESCRIPTION	PROJECT COST ESTIMATE YEAR REQUIRED		
		2005	2010	2020
1	Widen Parallel Taxiway		\$95,600	
2	Install Runway End Identifier Lighting	\$40,250		
3	Install Pilot Control System		\$51,750	
4	Upgrade Runway Lights To Medium Intensity		\$310,500	
5	Upgrade Taxiway Lights to Medium Intensity		\$230,000	
6	Install additional Shade Structures	\$189,750	\$189,750	
7	Increase Aircraft Tiedowns and Apron Area.			\$240,373
8	Restripe Parking Apron to Provide Required Separations (costs included in #7)			
9	Install AWOS-3		\$92,000	
10	Install Aircraft Maintenance Hanger		\$296,700	
11	Acquire 60 Acres East Side	\$261,618		
12	Acquire 40 Acres West Side	\$174,412		
13	Upgrade Master Plan		\$76,000	\$190,000
TOTALS PER PLANNING PERIOD		\$666,030	\$1,342,300	\$430,373

TOTAL CAPITAL COSTS \$2,438,703

CONCEPT C

COCHISE COLLEGE AIRPORT MASTER PLAN UPDATE

DEVELOPMENT CONCEPT C

PROJECT COST ESTIMATE
YEAR REQUIRED

ITEM #	PROJECT DESCRIPTION	2005	2010	2020
1	Widen Parallel Taxiway to 25'		\$95,600	
2	Install Runway End Identifier Lighting	\$40,250		
3	Install Pilot Control System		\$51,750	
4	Upgrade Runway Lights to Medium Intensity		\$310,500	
5	Upgrade Taxiway Lights to Medium Intensity		\$230,000	
6	Install additional Shade Structures	\$189,750	\$189,750	
7	Increase Aircraft Tiedowns and Apron Area.			\$123,855
8	Restripe Parking Apron to Provide Required Separations (costs included in #7)			
9	Install AWOS-3		\$92,000	
10	Install Aircraft Maintenance Hanger		\$296,700	
11	Acquire 60 Acres East Side	\$261,618		
12	Acquire 40 Acres West Side	\$174,412		
13	Upgrade Master Plan		\$76,000	\$190,000
TOTALS PER PLANNING PERIOD		\$666,030	\$1,342,300	\$313,855

TOTAL CAPITAL COSTS \$2,322,185

CONCEPT D

COCHISE COLLEGE AIRPORT MASTER PLAN UPDATE

DEVELOPMENT CONCEPT D

**PROJECT COST ESTIMATE
YEAR REQUIRED**

ITEM #	PROJECT DESCRIPTION	2005	2010	2020
1	Widen Parallel Taxiway to 25'		\$95,600	
2	Install Runway End Identifier Lighting	\$40,250		
3	Install Pilot Control System		\$51,750	
4	Upgrade Runway Lights to Medium Intensity		\$310,500	
5	Upgrade Taxiway Lights to Medium Intensity		\$230,000	
6	Install additional Shade Structures	\$215,050	\$215,050	
7	Increase Aircraft Tiedowns and Apron Area.			\$123,855
8	Restripe Parking Apron to Provide Required Separations (costs included in #7)			
9	Install AWOS-3		\$92,000	
10	Install Aircraft Maintenance Hanger		\$296,700	
11	Acquire 60 Acres East Side	\$261,618		
12	Acquire 40 Acres West Side	\$174,412		
13	Upgrade Master Plan		\$76,000	\$190,000
TOTALS PER PLANNING PERIOD		\$691,330	\$1,367,600	\$313,855

TOTAL CAPITAL COSTS \$2,372,785

CONCEPT E

COCHISE COLLEGE AIRPORT MASTER PLAN UPDATE

DEVELOPMENT CONCEPT E

**PROJECT COST ESTIMATE
YEAR REQUIRED**

ITEM #	PROJECT DESCRIPTION	2005	2010	2020
1	Widen Runway Upgrade Runway Lights to Medium Intensity		\$762,138	
2	Relocate and Widen Parallel Taxiway Upgrade Taxiway Lights to Medium Intensity		\$922,754	
3	Relocate Shade Structure (minimum 3 Spaces)	\$60,720		
4	Install Runway End Identifier Lighting	\$40,250		
5	Install Pilot Control System		\$51,750	
6	Install additional Shade Structures	\$75,900	\$265,650	
7	Increase Aircraft Tiedowns and Apron Area.			\$372,577
8	Restripe Parking Apron to Provide Required Separations (costs included in #7)			
9	Install AWOS-3		\$92,000	
10	Install Aircraft Maintenance Hanger		\$296,700	
11	Acquire 60 Acres East Side	\$261,618		
12	Acquire 40 Acres West Side	\$174,412		
13	Upgrade Master Plan		\$76,000	\$190,000
14	Procure Fire Truck		\$65,000	
15	Install Jet-A Fuel Tank		\$42,500	
TOTALS PER PLANNING PERIOD		\$612,900	\$2,574,492	\$562,577

TOTAL CAPITAL COSTS \$3,749,969

CONCEPT F

COCHISE COLLEGE AIRPORT MASTER PLAN UPDATE

DEVELOPMENT CONCEPT F

ITEM #	PROJECT DESCRIPTION	PROJECT COST ESTIMATE YEAR REQUIRED		
		2005	2010	2020
1	Widen Runway Upgrade Runway Lights to Medium Intensity		\$762,138	
2	Relocate and Widen Parallel Taxiway Upgrade Taxiway Lights to Medium Intensity		\$922,754	
3	Relocate Shade Structure (minimum 3 Spaces)	\$60,720		
4	Install Runway End Identifier Lighting	\$40,250		
5	Install Pilot Control System		\$51,750	
6	Install additional Shade Structures	\$75,900	\$265,650	
7	Increase Aircraft Tiedowns and Apron Area.			\$425,362
8	Restripe Parking Apron to Provide Required Separations (costs included in #7)			
9	Install AWOS-3		\$92,000	
10	Install Aircraft Maintenance Hanger		\$296,700	
8	Acquire 60 Acres East Side	\$261,618		
9	Acquire 40 Acres West Side	\$174,412		
10	Upgrade Master Plan		\$76,000	\$190,000
11	Procure Fire Truck		\$65,000	
12	Install Jet-A Fuel Tank		\$42,500	
TOTALS PER PLANNING PERIOD		\$612,900	\$2,574,492	\$615,362

TOTAL CAPITAL COSTS \$3,802,754

COCHISE COLLEGE AIRPORT MASTER PLAN UPDATE

DEVELOPMENT CONCEPTS

COST ESTIMATE WORKSHEET

CONCEPT ITEM NO	PROJECT DESCRIPTION SUB-ELEMENT	UNIT OF MEASURE	QUANTITY	UNIT COST	SUB-ELEMENT COST	PROJECT COST
A1, B1 C1, D1	Widen Parallel Taxiway					
	Removals	sy	3,400	\$9	\$30,600	
	Construct pavement	sy	3,400	\$15	\$51,000	
	Repaint	sf	5,100	\$0.30	\$1,530	
	Construction Cost				\$83,130	
	Design & Admin		15.00%		\$12,470	
	Project Total					\$95,600
A2, B2, C2, D2 E4, F4	Runway End Identifier Lighting					
	Install	job	1	\$35,000	\$35,000	
	Design & Admin		15.00%		\$5,250	
	Project Total					\$40,250
A3, B3, C3, D3 E5, F5	Install Pilot Control System					
	Install	job	1	\$15,000	\$15,000	
	Site Prep, power	Job	1	\$30,000	\$30,000	
	Design & Admin		15.00%		\$6,750	
	Project Total					\$51,750
A4, B4 C4, D4,	Upgrade LIRL TO MIRL					
	Install	job	1	\$270,000	\$270,000	
	Design & Admin		15.00%		\$40,500	
	Project Total					\$310,500
A5, B5 C5, D5	Upgrade LITL TO MITL					
	Install	job	1	\$200,000	\$200,000	
	Design & Admin		15.00%		\$30,000	
	Project Total					\$230,000
A6, B6	Additional Shade Structures					
	Construct 10 Shades	sf	22,000	\$15	\$330,000	
	Design & Admin		15.00%		\$49,500	
	Project Total					\$379,500
C6, D6	Additional Shade Structures					
	Construct 10 Shades, 2 parts	sf	22,000	\$17	\$374,000	
	Design & Admin		15.00%		\$56,100	
	Project Total					\$430,100

COCHISE COLLEGE AIRPORT MASTER PLAN UPDATE

DEVELOPMENT CONCEPTS

COST ESTIMATE WORKSHEET

CONCEPT ITEM NO	PROJECT DESCRIPTION SUB-ELEMENT	UNIT OF MEASURE	QUANTITY	UNIT COST	SUB-ELEMENT COST	PROJECT COST
A7, C7 D7	Increase Aircraft Tiedowns and Apron Area.					
	Removals	sy	3,150	\$9	\$28,350	
	Construct apron & tiedowns	sy	3,150	\$25	\$78,750	
	Repaint	sf	2,000	\$0.30	\$600	
	Construction Cost				\$107,700	
	Design & Admin		15.00%		\$16,155	
	Project Total					\$123,855
B7	Increase Aircraft Tiedowns and Apron Area.					
	Removals	sy	6,130	\$9	\$55,170	
	Construct apron & tiedowns	sy	6,130	\$25	\$153,250	
	Repaint	sf	2,000	\$0.30	\$600	
	Construction Cost				\$209,020	
	Design & Admin		15.00%		\$31,353	
	Project Total					\$240,373
A11, B11, C11, D11 E11, F11	Acquire 60 Acres East Side	acre	60	\$4,360	\$261,618	\$261,618
A12, B12, C12, D12 E12, F12	Acquire 40 Acres West Side	acre	40	\$4,360	\$174,412	\$174,412
E1, F1	Widen Runway					
	Removals	sy	14,733	\$9	\$132,600	
	Construct pavement	sy	14,733	\$18	\$257,833	
	Repaint	sf	7,650	\$0.30	\$2,295	
	MIRL	job	1	\$270,000	\$270,000	
	Construction Cost				\$662,728	
	Design & Admin		15.00%		\$99,409	
	Project Total					\$762,138

COCHISE COLLEGE AIRPORT MASTER PLAN UPDATE

DEVELOPMENT CONCEPTS

COST ESTIMATE WORKSHEET

CONCEPT ITEM NO	PROJECT DESCRIPTION SUB-ELEMENT	UNIT OF MEASURE	QUANTITY	UNIT COST	SUB-ELEMENT COST	PROJECT COST
E2, F2	Relocate and Widen Taxiway					
	Removals	sy	14,733	\$9	\$132,600	
	Construct pavement	sy	31,167	\$15	\$467,500	
	Repaint	sf	7,650	\$0.30	\$2,295	
	MITL	job	1	\$200,000	\$200,000	
	Construction Cost				\$802,395	
	Design & Admin		15.00%		\$120,359	
	Project Total					\$922,754
E3, F3	Relocate Shade Structure (minimum 3 Spaces)					
	Removals	sy	733	\$9	\$6,600	
	Replace pavement	sy	733	\$15	\$11,000	
	Reconstruct Shades	sf	6,600	\$8	\$52,800	
	Design & Admin		15.00%		\$7,920	
	Project Total					\$60,720
E6, F6	Additional Shade Structures					
	Construct 9 Shades	sf	19,800	\$15	\$297,000	
	Design & Admin		15.00%		\$44,550	
	Project Total					\$341,550
E7	Increase Aircraft Tiedowns and Apron Area.					
	Removals	sy	9,520	\$9	\$85,680	
	Construct apron & tiedowns	sy	9,520	\$25	\$238,000	
	Repaint	sf	1,000	\$0.30	\$300	
	Construction Cost				\$323,980	
	Design & Admin		15.00%		\$48,597	
	Project Total					\$372,577
F7	Increase Aircraft Tiedowns and Apron Area.					
	Removals	sy	10,870	\$9	\$97,830	
	Construct apron & tiedowns	sy	10,870	\$25	\$271,750	
	Repaint	sf	1,000	\$0.30	\$300	
	Construction Cost				\$369,880	
	Design & Admin		15.00%		\$55,482	
	Project Total					\$425,362

COCHISE COLLEGE AIRPORT MASTER PLAN UPDATE

DEVELOPMENT CONCEPTS

COST ESTIMATE WORKSHEET

CONCEPT ITEM NO	PROJECT DESCRIPTION SUB-ELEMENT	UNIT OF MEASURE	QUANTITY	UNIT COST	SUB-ELEMENT COST	PROJECT COST
A9, B9 C9, D9 E9, F9	Install AWOS -3 Construct Pad, Install AWOS Provide Power Construction Cost Design & Admin Project Total	job job	1 1 15.00%	\$75,000 \$5,000	\$75,000 \$5,000 \$80,000 \$12,000	\$92,000
A10, B10 C10, D10 E10, F10	Install Maintenance Hangar Construct Building Provide Utilites Construction Cost Design & Admin Project Total	sf job	5,400 1 15.00%	\$45 \$15,000	\$243,000 \$15,000 \$258,000 \$38,700 \$0	\$296,700